| Index of Claims   | Application No.    |
|---|--------------------|
| I TERRII BRIIR PRIKI IRREI RIIIR IIRRE IIRRE IIIR RIII IRRI | 09/752,236         |
|   | Examiner           |
|   | Kimberly D. Nguyen |

Applicant(s)

FARIA ET AL.

Art Unit

| √ | R ject d |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elect d  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

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| Cla      | aim      |  |          |              | [  | Date     | е   |           |                 |           | Cla   | im       |             |   |           | Date                                    | )             |               |           |       | Cla   | aim        |          |                 |                    | D        | ate          |          |          |          |           |
|----------|----------|--|----------|--------------|--|----------|---|-----------|-----------------|-----------|-------|----------|-------------|---|-----------|---|---------------|---------------|-----------|-------|-------|------------|----------|-----------------|--------------------|----------|--------------|----------|----------|----------|-----------|
|          | a        | _  |          |              |  |          |   |           |                 |           | _     | ā        |             |   |           |   |               |               |           |       | _     | ā          |          |                 |                    | -        |              |          |          |          |           |
| Final    | Original | 1/2/04   |          |              |  |          |   |           |                 |           | Final | Original |             | 1   |           |   | 1             |               |           |       | Final | Original   |          |                 | ļ                  |          |              |          |          |          |           |
| IL.      | ö        | =  |          |              |  |          |   |           |                 |           | ш     | õ        |             |   |           |   |               | 11            |           |       | ╙     | ō          |          |                 |                    |          |              |          |          | i        |           |
| <u> </u> | 1        | ├-   |          |              |  |          |   | -         | $\dashv$        |           |       | 51       | $\vdash$    | ┿   | +-        | ┝╌┤                                     |               | ++            | $\dashv$  | -     |       | 101        |          |                 | +                  | +        | $\dashv$     | -+       | +        | -        | $\dashv$  |
|          | 2        | -  |          |              |  |          |   | $\vdash$  | -               | -         |       | 52       | +           | +   | +         | ┼┤                                      |               | +             | $\dashv$  |       |       | 102        |          | -               | +                  | +        | +            | $\dashv$ | +        | $\dashv$ | $\dashv$  |
|          | 3        | -  |          |              |  | $\vdash$ |   | $\vdash$  |                 | _         |       | 53       | $\vdash$    | +   | $\dagger$ |   | _             | +++           | <b>-</b>  | 1     |       | 103        | 一        |                 | $\top$             | 7        | _            | 7        | $\dashv$ | $\dashv$ | $\dashv$  |
|          | 4        |  |          |              |  | H        |   | $\Box$    | $\vdash$        | _         |       | 54       | $\vdash$    | $\top$  | T         |   | _             | 7 1           | $\exists$ |       |       | 104        |          |                 | T                  | $\neg$   | 7            | $\top$   | $\top$   | $\dashv$ | ╗         |
|          | 5        |  |          |              |  |          |   |           |                 |           |       | 55       |             | T   | T         |   |               |               | $\neg$    |       |       | 105        |          |                 | T                  |          |              |          | 丁        |          |           |
|          | 6        |  |          |              |  |          |   |           |                 |           |       | 56       |             |   | 1         |   |               |               |           |       |       | 106        |          |                 | $\perp$            | $\Box$   |              | $\Box$   | $\Box$   |          | $\Box$    |
|          | 7        |  |          |              |  |          |   |           |                 |           |       | 57       |             |   |           |   |               |               |           |       |       | 107        | _        |                 | _                  | 4        |              | 4        | $\dashv$ | _        | _         |
|          | 8        |  |          |              | _  |          |   |           |                 | _         |       | 58       | $\perp$     | _   |           |   |               |               | _         |       |       | 108        |          |                 | _                  | _        | 4            | _        | $\dashv$ |          | _         |
|          | 9        | <u>_</u>   | _        | _            | _  |          | _   |           |                 | _         |       | 59       | _           | +   | $\bot$    |   |               | -             |           |       |       | 109        | _        | -               | +                  | -        | <b>-</b> -ŀ- | _        | +        | 4        | 4         |
|          | 10       |  | _        |              | _  | _        | _   |           | _               | _         |       | 60       |             | +   | ┿         |   | +             |               |           |       |       | 110        | _        | $\dashv$        | +                  | -        | -+           |          | +        | -        | $\dashv$  |
| 1        | 11       | =  |          | <u> </u>     |  |          | $\vdash$  | $\vdash$  | $\dashv$        | $\dashv$  |       | 61       | <del></del> | - -   | +         | $\vdash$                                | +             | +             | -         |       |       | 111<br>112 | _        | $\dashv$        | +                  | +        | +            | +        | +        | $\dashv$ | $\dashv$  |
| 2        | 12<br>13 | =  | -        | Ь—           | $\vdash$   | $\vdash$ | -   | $\vdash$  | $\dashv$        |           |       | 62<br>63 | $\vdash$    |   | +         | $\vdash$                                | -             | +             | $\dashv$  | ::: - |       | 113        | $\dashv$ | $\dashv$        | +                  | +        | +            | $\dashv$ | +        | -        | $\dashv$  |
| -        | 14       | -  | $\vdash$ |              | $\vdash$   | -        | -   | $\vdash$  | -               | $\dashv$  |       | 64       | $\vdash$    | - -   | +         | +-1                                     | -             | +             | $\dashv$  | ∷∤    |       | 114        |          | $\dashv$        | +                  | +        | +            | $\dashv$ | +        | -        | $\dashv$  |
| 3        | 15       | Ė  | $\vdash$ |              | $\vdash$   | $\vdash$ | -   | $\vdash$  | -               | $\dashv$  |       | 65       | $\vdash$    | +   | +         | +                                       | $\dashv$      | +             | $\dashv$  | ₽     |       | 115        |          | $\dashv$        | $\dashv$           | 十        | $\dashv$     | $\dashv$ | 十        | $\dashv$ | $\dashv$  |
| 4        | 16       | =  | $\vdash$ |              | $\vdash$   | -        | -   | $\vdash$  |                 | $\dashv$  |       | 66       | $\vdash$    | $\dashv$  | $\top$    | $\Box$                                  |               | ++            | -         |       |       | 116        |          | +               | 十                  | $\dashv$ | $\dashv$     | 十        | 十        | 寸        | $\dashv$  |
| 5        | 17       | =  |          |              | <del>                                     </del> | <b>!</b> | $\vdash$  | $\Box$    |                 | $\exists$ |       | 67       | $\vdash$    | $\top$  | 1         | П                                       |               | 11            | 1         |       |       | 117        |          | $\neg \uparrow$ | $\top$             | ┪        | $\dashv$     |          | $\top$   | 7        | $\neg$    |
| 6        | 18       | =  |          |              | 一  | Т        |   |           |                 |           |       | 68       |             | _   | Τ         | П                                       |               |               |           |       |       | 118        |          |                 | $\neg$             | $\neg$   |              | $\neg$   | $\dashv$ |          |           |
|          | 19       | -  |          |              |  |          |   |           |                 |           |       | 69       |             |   |           | П                                       |               |               |           |       |       | 119        |          |                 |                    |          |              |          | $\Box$   |          |           |
|          | 20       | -  |          |              |  |          |   |           |                 |           |       | 70       |             |   |           |   |               |               |           |       |       | 120        |          |                 |                    |          |              |          | $\Box$   |          |           |
|          | 21       |  |          |              |  |          |   |           |                 |           |       | 71       |             |   |           | Ш                                       |               |               |           |       |       | 121        |          |                 | $\perp$            |          | _            |          | $\Box$   |          |           |
|          | 22       | L  |          |              |  |          |   |           |                 |           |       | 72       |             |   | <u> </u>  | Ш                                       |               | $\perp \perp$ |           |       |       | 122        |          |                 | 4                  | 4        | $\dashv$     | _        | $\dashv$ | _        | _         |
|          | 23       | _  | _        |              |  | _        |   | Ш         |                 |           |       | 73       |             | _   | 4         | Ш                                       |               | $\bot$        | _         |       |       | 123        |          |                 | 4                  | 4        |              | _        | $\dashv$ | $\dashv$ | 4         |
|          | 24       | <u> </u>   |          | <u> </u>     |  | <u> </u> | <u> </u>  |           | -               |           |       | 74       |             | - -   | 4         | Н                                       | $\perp$       | +             |           |       |       | 124        |          |                 | $\dashv$           | +        | $\dashv$     | -+       | -        |          | ᅴ         |
|          | 25       | ⊢  |          | <u> </u>     |  | -        | _   | $\vdash$  |                 | _         |       | 75       |             | +   | +         | $\vdash$                                | +             | +             |           |       |       | 125        | _        | -               | +                  | +        | +            | $\dashv$ | $\dashv$ | -        | $\dashv$  |
|          | 26<br>27 | ⊢  |          | ├            |  | 1-       |   | Н         |                 | _         |       | 76<br>77 | $\vdash$    | +   | ╁         | Н                                       | +             | +             | - :       |       |       | 126<br>127 |          | +               | +                  | +        | +            | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$  |
|          | 28       |  |          | ├            |  | ┢一       | <del>                                      </del> | Н         | $\dashv$        | _         |       | 78       |             | -   | +         | +                                       | +             | $\dashv$      | -         |       |       | 128        | -        |                 |                    | $\dashv$ | $\dashv$     | $\dashv$ | +        | $\dashv$ | ᅱ         |
|          | 29       | ┝  | $\vdash$ | <del> </del> |  | <u> </u> |   | Н         | $\dashv$        | $\neg$    |       | 79       | $\vdash$    | ┪   | ╁         | Н                                       | +             | ++            | -         |       |       | 129        |          | $\dashv$        | ╅                  | +        | 1            | $\dashv$ | +        | _        | $\dashv$  |
| -        | 30       | -  | -        | $\vdash$     |  | H        | $\vdash$  | Н         | $\dashv$        | -         |       | 80       |             | $^{+}$  | +         | Н                                       | +             | $\dashv$      | -         |       |       | 130        |          | 十               | $\dashv$           | +        | 1            | 寸        | +        | 7        | 一         |
|          | 31       | T  |          |              |  |          | _   |           |                 |           |       | 81       | H           | $\top$  | +         | П                                       | $\neg \vdash$ | 11            |           |       |       | 131        |          |                 |                    | 1        | Ť            | $\dashv$ | 十        | $\neg$   | ᅱ         |
|          | 32       |  |          | Г            |  |          | П   |           |                 |           |       | 82       |             |   | 1         |   |               |               |           |       |       | 132        |          |                 |                    | T        |              |          | $\Box$   |          |           |
|          | 33       |  |          |              |  |          |   |           |                 |           |       | 83       |             |   |           |   |               |               |           |       |       | 133        |          |                 |                    |          | $\Box$       |          |          |          |           |
|          | 34       | $\Box$   |          |              |  |          |   |           |                 |           |       | 84       |             |   | 1         | $\sqcup$                                | _  _          | $\perp \perp$ | _         |       |       | 134        |          |                 | _ _                | _        | _            | $\perp$  | $\perp$  | _        | $\sqcup$  |
| L        | 35       | L  | <u> </u> |              | _  | <u> </u> | Ш   | Ш         | Щ               | _         |       | 85       | $\sqcup$    | $\perp$   | 1         | -                                       |               | 44            | _         |       |       | 135        |          | $\perp$         | _                  | $\perp$  | _            | _        | _        | _        | $\dashv$  |
|          | 36       | <u> </u>   | <u> </u> | <u> </u>     | $\vdash$   | <u> </u> |   | Ш         | $\sqcup$        |           |       | 86       | $\vdash$    | +   | +         | $\sqcup$                                | -             | -             |           |       |       | 136        |          | $\dashv$        | +                  | 4        | +            |          | $\dashv$ | 4        | $\dashv$  |
| <u> </u> | 37       | $\vdash$   | <u> </u> |              |  | 1        | $\vdash$  | $\square$ | $\sqcup$        |           |       | 87       | $\vdash$    | +   | +         | $\vdash$                                |               | +             | -         |       |       | 137        | Щ        |                 | +                  | $\dashv$ | +            | $\dashv$ | +        | $\dashv$ | $\dashv$  |
| <u> </u> | 38<br>39 | $\vdash$   | <u> </u> |              | -  | <u> </u> | -   | $\vdash$  | $\vdash$        | _         |       | 88<br>89 | $\vdash$    | +   | +-        | $\vdash$                                | -             | $\dashv$      |           |       |       | 138<br>139 | $\vdash$ | +               | +                  | +        | +            | $\dashv$ | +        | $\dashv$ | $\dashv$  |
| <u> </u> | 40       | ┢  | $\vdash$ | -            | -  | -        |   | $\vdash$  | $\vdash \vdash$ | _         |       | 90       | $\vdash$    | +   | +-        | $\vdash$                                | -             | +++           | -         |       |       | 140        | $\dashv$ | $\dashv$        | +                  | $\dashv$ | +            | $\dashv$ | +        | $\dashv$ | 긕         |
|          | 41       | <del>  -  </del>                                 |          |              | -  | $\vdash$ |   |           | $\vdash \vdash$ |           |       | 91       | $\vdash$    | +   | +-        | $\vdash$                                | -+            | +             | -         |       |       | 141        |          | $\dashv$        | +                  | +        | +            | $\dashv$ | +        | $\dashv$ | $\dashv$  |
|          | 42       | <del>                                     </del> | _        |              | -  | +        |   | H         | $\vdash$        |           | -     | 92       | $\vdash$    | +   | +-        | +                                       | $\dashv$      | +             | -         |       |       | 142        | Н        | +               | -                  | +        | +            | $\dashv$ | +        | ┪        |           |
|          | 43       | H  | <u> </u> |              | T  | İ        |   | $\Box$    | $\vdash$        |           |       | 93       | $\vdash$    | +   | $\top$    | H                                       | +             | +             | -         |       |       | 143        |          | $\dashv$        | $\dashv$           | $\dashv$ | +            | $\dashv$ | $\top$   | $\dashv$ | $\neg$    |
|          | 44       |  | Т        |              | $\vdash$   |          | П   | П         | $\vdash$        |           |       | 94       | $\sqcap$    | 1   | 1         | П                                       | 1             | 11            | $\exists$ |       | -     | 144        |          | $\top$          | $\top$             | $\dashv$ | $\dashv$     | $\neg$   | $\top$   | 寸        | $\exists$ |
|          | 45       |  |          |              |  |          |   |           |                 |           |       | 95       |             |   | $\perp$   |   |               |               |           |       |       | 145        |          |                 | $\dashv$           |          | ╛            | 丁        | $\Box$   |          |           |
|          | 46       |  |          |              |  |          |   |           |                 |           |       | 96       |             | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | T         |   |               |               |           |       |       | 146        |          |                 |                    |          | I            |          | $\Box$   |          |           |
|          | 47       |  |          |              |  |          |   |           |                 |           |       | 97       | Ш           |   |           |   |               | Ш             |           |       |       | 147        |          |                 | $oldsymbol{\perp}$ | $\Box$   | $\Box$       | $\Box$   | $\perp$  |          |           |
|          | 48       |  | _        | L.           | L  |          |   | Ш         | Ш               |           |       | 98       | $\sqcup$    | _   |           | 1                                       | _             | $\perp \perp$ | _         |       |       | 148        |          | $\Box$          | $\perp$            |          | _            | _        | _        | _        |           |
| <u> </u> | 49       | <u> </u>   | _        | <u> </u>     | _  | $\vdash$ | L   | Ш         | $\sqcup$        |           |       | 99       | $\sqcup$    | $\perp$   | 4_        | $\perp$                                 | _             | +             | _         |       |       | 149        |          | 4               | $\downarrow$       | 4        | _            | $\perp$  | $\dashv$ | _        | $\Box$    |
| L        | 50       |  | 1        |              |  |          |   |           |                 |           |       | 100      | $\perp$     |   |           | لــــــــــــــــــــــــــــــــــــــ |               |               | :         |       |       | 150        |          |                 |                    | $\perp$  | $\perp$      |          | 丄        |          |           |